

1/15

GC527

FIG.-1B - 1

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**Mutant Proteins Having Lower Allergenic Response in Humans & Methods for Constructing, Identifying & Producing Such Proteins**  
Estell et al.  
SN# 09/062,872 *s*

APPROVED BY DRAFTSMAN

[illegible]

FIG.-1B-2

GC527

Mutant Proteins Having Lower Allergenic  
Response in Humans & Methods for  
Constructing, Identifying & Producing Such  
Proteins  
Estell et al.  
SN# 09/062,872

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APPROVED	FIG. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Asn

Ile

Leu

Gly

Lys

Gly

Tyr

Tyr

Phe

Ser

Asp

Gly

Leu

Lys

Thr

Thr

Thr

Asn

Gln

Glu

Leu

Ser

Arg

Val

Gln

GTA

AAC

ATC

CTG

GGG

AAA

GGA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

AGT

AGC

CGC

GTC

CAA

1149

250

Leu

Ser

Arg

Val

Gln

GTA

275

Gln

Ala

Ala

GCT

CAG

TAA

TERM

1149 CAA GTC CGC AGC AGT TTA GAA AAC ACC ACT ACA AAA CTT GGT GAT TCT TTC TAC TAT GGA AAA GGG CTG ATC AAC

275

Gln

Ala

Ala

GCT

CAG

TAA

275

Gln

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GCT

CAG

TAA

275

Gln

Ala

Ala

GCT

CAG

TAA

FIG.-1B - 3

FIG.-1B - 1

FIG.-1B - 2

FIG.-1B - 3

FIG.-1B

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CONSERVED RESIDUES IN SUBTILISINS FROM  
*BACILLUS AMYLOLIQUEFACIENS*

APPENDIX C.G. FIG.	BY	SUBCLASS
	DRAFTSMAN	

```

1           10           20
A Q S V P . G . . . . . A P A . H . . G

21          30          40
. T G S . V K V A V . D . G . . . . H P

41          50          60
D L . . . G G A S . V P . . . . . Q D

61          70          80
. N . H G T H V A G T . A A L N N S I G

81          90          100
V L G V A P S A . L Y A V K V L G A . G

101         110         120
S G . . S . L . . G . E W A . N . . . .

121         130         140
V . N . S L G . P S . S . . . . . A . .

141         150         160
. . . . . G V . V V A A . G N . G . . .

161         170         180
. . . . . Y P . . Y . . . . A V G A .

181         190         200
D . . N . . A S F S . . G . . L D . . A

201         210         220
P G V . . Q S T . P G . . Y . . . N G T

221         230         240
S M A . P H V A G A A A L . . . K . . .

241         250         260
W . . . Q . R . . L . N T . . . L G . .

261         270
. . Y G . G L . N . . A A . .

```

**FIG.\_2**

APPROVED	BY	CLASS	SUBCLASS
DRAFTSMAN			

## COMPARISON OF SUBTILISIN SEQUENCES FROM:

*B.amyloliquefaciens**B.subtilis**B.licheniformis**B.lentus*

FIG.-3A

01	10	20	30	
A Q S V P Y G V S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P				
A Q S V P Y G I S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P				
A Q T V P Y G I P L I K A D K V Q A Q G F K G A N V K V A V L D T G I Q A S H P				
A Q S V P W G I S R V Q A P A A H N R G L T G S G V K V A V L D T G I S T * H P				

41	50	60	70	
D L K V A G G A S M V P S E T N P P Q D N S H G T H V A G T V A A L N N S I G				
D L N V R G G A S F V P S E T N P P Q D G S S H G T H V A G T V A A L N N S I G				
D L N V V G G A S F V P S E T N P P Q D G N G H G T H V A G T V A A L N N S I G				
D L N I R G G A S F V P S E T N P P Q D G N G H G T H V A G T V A A L N N S I G				

81	90	100	110	
V L G V A P S A S L Y A V K V L G A D G S G Q Y S W I I N G I E W A I A N N M D				
V L G V S P S A S L Y A V K V L D S T G S G Q Y S W I I N G I E W A I S N N M D				
V L G V A P S V S L Y A V K V L N S S G S G Q Y S W I I N G I E W A T N N G M D				
V L G V A P S A E L Y A V K V L G A S G S G Q Y S W I I N G I E W A G N N G M H				

121	130	140	150	
V I N M S L G G P S G S A A L K A A V D K A V A S G V V V A A A G N E G T S S G				
V I N M S L G G P T G S T A L K T V V D K A V S S G I V V A A A A G N E G S S G				
V I N M S L G G A S G S T A M K Q A V D N A Y A R G V V V A A A A G N S G N S G				
V A N L S L G S P S A T L E Q A V N S A T S R G V L V V A A A A G N S G A G S				

APPROVED	DATE	FIG.
BY	CLASS	SUBCLASS
DRAFTSMAN		

[illegible]

201	V	S	I	Q	S	T	L	P	G	N	K	Y	G	A	Y	N	G	T	S	M	A	S	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N	
202	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
203	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
204	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
205	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
206	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
207	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
208	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
209	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
210	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
211	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
212	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
213	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
214	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
215	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
216	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
217	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
218	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
219	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A	L	I	L	S	K	H	P	N
220	P	G	V	S	I	Q	S	T	L	P	G	T	Y	G	A	Y	N	G	T	S	M	A	T	P	H	V	A	G	A	A</								

241	W	T	N	T	Q	V	R	S	S	L	E	N	T	T	K	L	G	D	S	F	Y	G	K	G	L	I	N	V	Q	A	A	Q	
	T	N	A	Q	V	R	D	R	L	E	S	T	A	T	Y	L	G	N	S	F	Y	G	K	G	L	I	N	V	Q	A	A	Q	
	L	S	A	S	Q	V	R	N	R	L	S	S	T	A	T	Y	L	G	S	S	F	Y	G	K	G	L	I	N	V	E	A	A	Q
	W	S	N	V	Q	I	R	N	H	L	K	N	T	A	T	S	L	G	S	T	N	L	Y	G	S	G	L	V	N	A	E	A	T

**FIG. 3B**

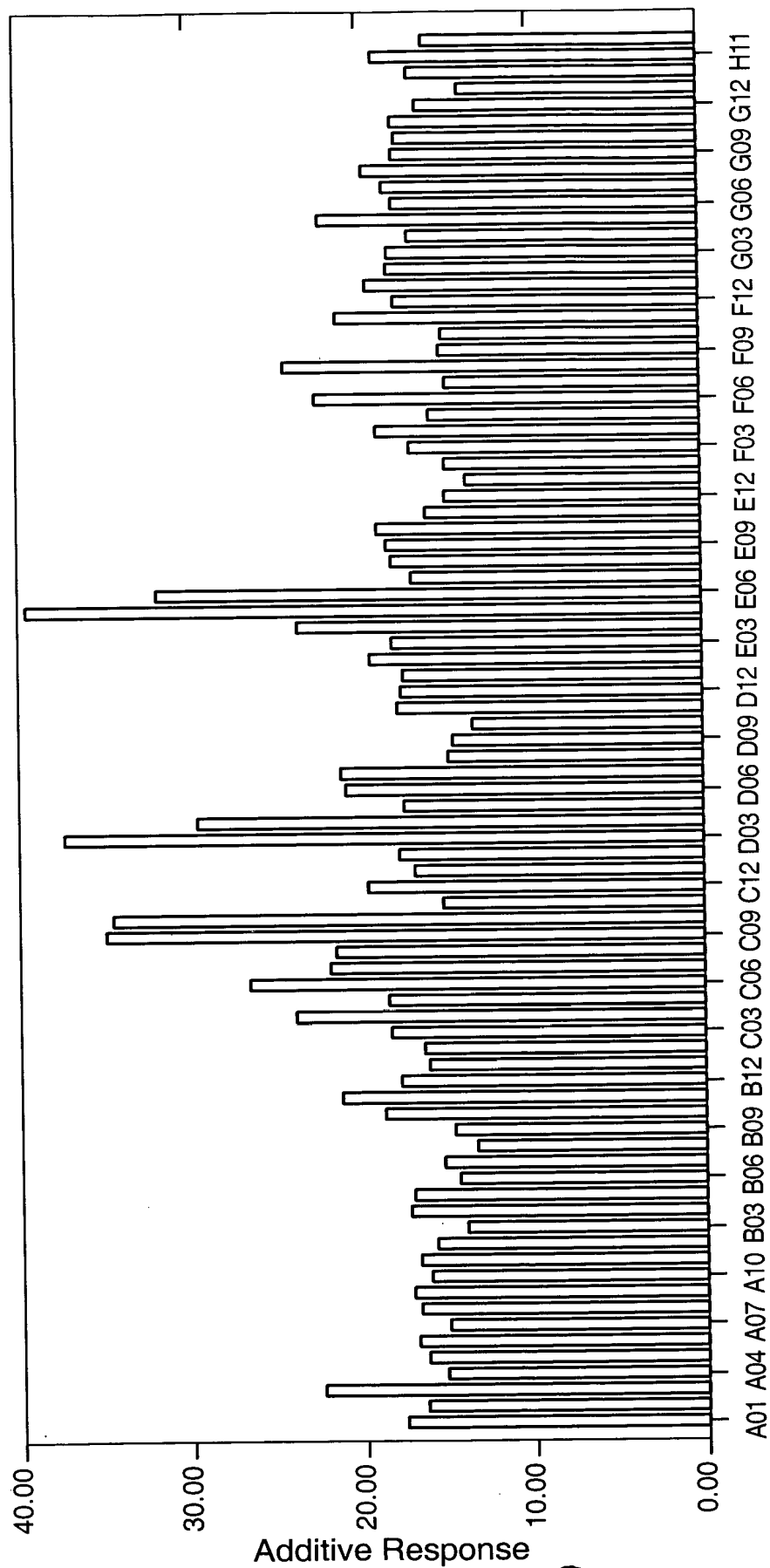
**FIG.\_3A**

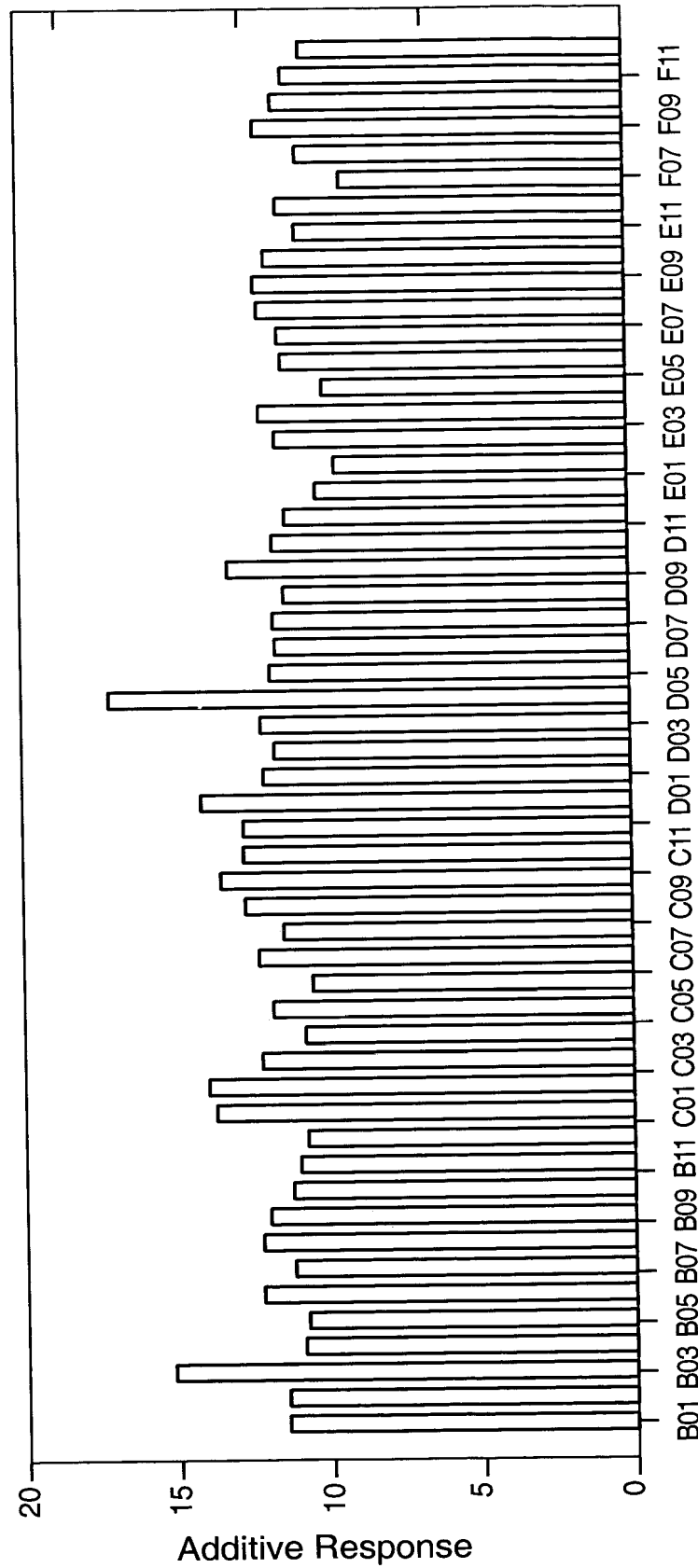
**FIG. 3B**

**FIG. 3**

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

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**FIG. 4**



**FIG.\_5**

APPROVED BY DRAFTSMAN CLASS SUBCLASS



1	A12	IKDFHVFRESRDAG	49	E12	SATSRGVLVVAASGN
2	A11	LEQAVNSATSRGVLV	50	E11	SRGVLVVAASGNSGA
3	A10	AQSVPWGISRVQAPA	51	E10	VLVVAASGNSGAGSI
4	A9	VPWGISRVQAPAAHN	52	E9	VAASGNSGAGSISYP
5	A8	GISRVQAPAAHNRGL	53	E8	SGNSGAGSISYPARY
6	A7	RVQAPAAHNRGLTGS	54	E7	SGAGSISYPARYANA
7	A6	APAAHNRGLTGSGVK	55	E6	GSISYPARYANAMAV
8	A5	AHNRGLTGSGVKVAV	56	E5	SYPARYANAMAVGAT
9	A4	RGLTGSGVKVAVLDT	57	E4	ARYANAMAVGATDQN
10	A3	TGSGVKVAVLDTGIS	58	E3	ANAMAVGATDQNNNR
11	A2	GVKVAVLDTGISTHP	59	E2	MAVGATDQNNNRASF
12	A1	VAVLDTGISTHPDLN	60	E1	GATDQNNNRASFQY
13	B12	LDTGISTHPDLNIRG	61	F12	DQNNNRASFQYGAG
14	B11	GISTHPDLNIRGGAS	62	F11	NNRASFSQYGAGLDI
15	B10	THPDLNIRGGASFVP	63	F10	ASFSQYGAGLDIVAP
16	B9	DLNIRGGASFVPGEF	64	F9	SQYGAGLDIVAPGVN
17	B8	IRGGASFVPGEFSTQ	65	F8	GAGLDIVAPGVNVQS
18	B7	GASFVPGEFSTQDGN	66	F7	LDIVAPGVNVQSTYP
19	B6	FVPGEFSTQDGNHGH	67	F6	VAPGVNVQSTYPGST
20	B5	GEPSTQDGNHGHV	68	F5	GVNVQSTYPGSTYAS
21	B4	STQDGNHGHVAGT	69	F4	VQSTYPGSTYASLNG
22	B3	DGNHGHVAGTIAA	70	F3	TYPGSTYASLNGTSM
23	B2	GHGTHVAGTIAALNN	71	F2	GSTYASLNGTSMATP
24	B1	THVAGTIAALNNSIG	72	F1	YASLNGTSMATPHVA
25	C12	AGTIAALNNSIGVLG	73	G12	LNGTSMATPHVAGAA
26	C11	IAALNNSIGVLGVAP	74	G11	TSMATPHVAGAAALV
27	C10	LNNSIGVLGVAPSAE	75	G10	ATPHVAGAAALVKQK
28	C9	SIGVLGVAPSAELYA	76	G9	HVAGAAALVKQKNPS
29	C8	VLGVAPSAELYAVKV	77	G8	GAAALVKQKNPSWSN
30	C7	VAPSAELYAVKVLGA	78	G7	ALVKQKNPSWSNVQI
31	C6	SAELYAVKVLGASGS	79	G6	KQKNPSWSNVQIRNH
32	C5	LYAVKVLGASGSGSV	80	G5	NPSWSNVQIRNHLKN
33	C4	VKVLGASGSGSVSSI	81	G4	WSNVQIRNHLKNTAT
34	C3	LGASGSGSVSSIAQG	82	G3	VQIRNHLKNTATSLG
35	C2	SGSGSVSSIAQGLEW	83	G2	RNHLKNTATSLGSTN
36	C1	GSVSSIAQGLEWAGN	84	G1	LKNTATSLGSTNLYG
37	D12	SSIAQGLEWAGNNGM	85	H12	TATSLGSTNLYGSGSL
38	D11	AQGLEWAGNNGMHVA	86	H11	SLGSTNLYGSGSLVNA
39	D10	LEWAGNNGMHVANLS	87	H10	STNLYGSGSLVNAEAA
40	D9	AGNNGMHVANLSLGS	88	H9	NLYGSGSLVNAEAATR
41	D8	NGMHVANLSLGSPSP			
42	D7	HVANLSLGSPSPSAT			
43	D6	NLSLGSPSPSATLEQ			
44	D5	LGSPSPSATLEQAVN			
45	D4	PSPSATLEQAVNSAT			
46	D3	SATLEQAVNSATSRG			
47	D2	LEQAVNSATSRGVLV			
48	D1	AVNSATSRGVLVVA			

FIG. 6A

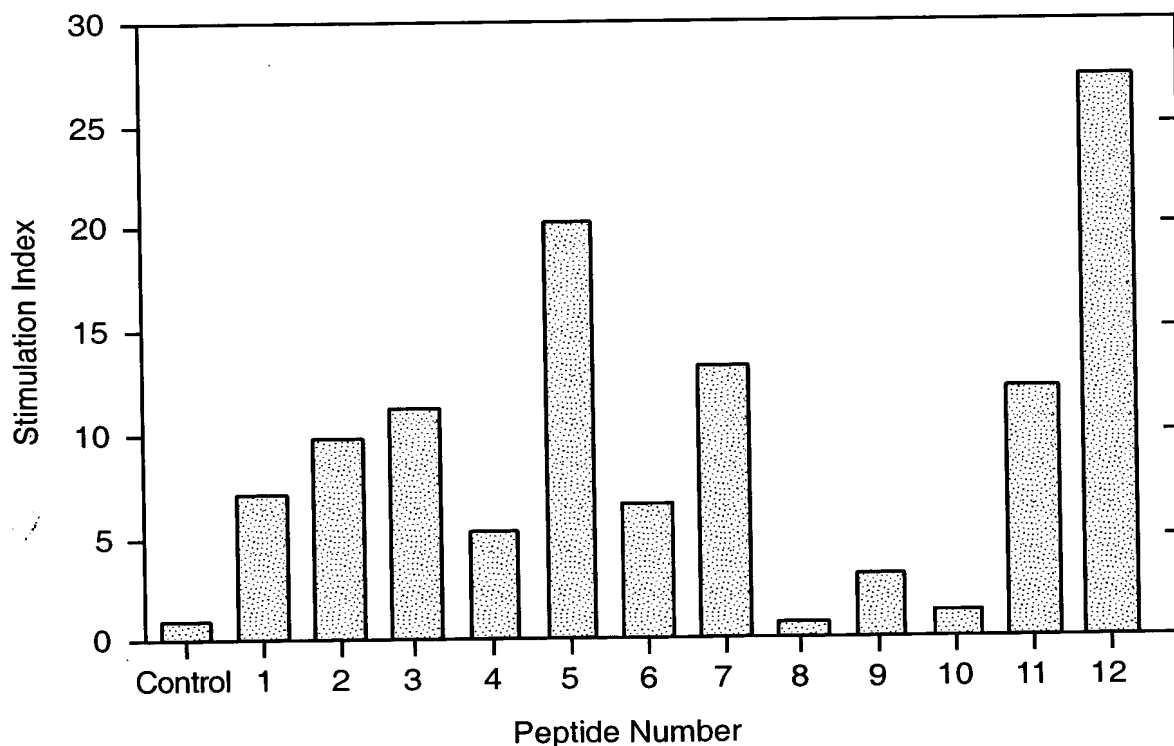
APPROVED	BY	CLASS	SUBCLASS
GC.FIG.			
DRAFTSMAN			

1	A12	IKDFHVFRESRDAG	49	E12	KKIDVLNLSIGGPDF
2	A11	DAELHIFRVFTNNQV	50	E11	DVLNLSIGGPDFMDH
3	A10	PLRRASLSLGSGFWH	51	E10	NLSIGGPDFMDHPFV
4	A9	RASLSLGSGFWHATG	52	E9	IGGPDFMDHPFVDKV
5	A8	LSLGSGFWHATGRHS	53	E8	PDFMDHPFVDKVVWEL
6	A7	GSGFWHATGRHSSRR	54	E7	MDHPFVDKVVWELTAN
7	A6	FWHATGRHSSRLLR	55	E6	PFVDKVVWELTANNVI
8	A5	ATGRHSSRLLRAIP	56	E5	DKVVWELTANNVIMVS
9	A4	RHSSRLLRAIPRQV	57	E4	WELTANNVIMVSAIG
10	A3	SRLLRAIPRQVAQT	58	E3	TANNVIMVSAIGNDG
11	A2	LLRAIPRQVAQTLQA	59	E2	NVIMVSAIGNDGPLY
12	A1	AIPRQVAQTLQADVL	60	E1	MVSAIGNDGPLYGTJ
13	B12	RQVAQTLQADVLWQM	61	F12	AIGNDGPLYGTLNPN
14	B11	AQTLQADVLWQMGYT	62	F11	NDGPLYGTLNPNPADQ
15	B10	LQADVLWQMGYTGAN	63	F10	PLYGTLNPNPADQMDV
16	B9	DVLWQMGYTGANVRV	64	F9	GTLNPNPADQMDVIGV
17	B8	WQMGYTGANVRVAVF	65	F8	NNPADQMDVIGVGGI
18	B7	GYTGANVRVAVFDTG	66	F7	ADQMDVIGVGGIDFE
19	B6	GANVRVAVFDTGLSE	67	F6	MDVIGVGGIDFEDNI
20	B5	VRVAVFDTGLSEKHP	68	F5	IGVGGIDFEDNIARF
21	B4	AVFDTGLSEKHPHFK	69	F4	GGIDFEDNIARFSSR
22	B3	DTGLSEKHPHFKNVK	70	F3	DFEDNIARFSSRGMT
23	B2	LSEKHPHFKNVKERT	71	F2	DNIARFSSRGMTTWE
24	B1	KHPHFKNVKERTNWT	72	F1	ARFSSRGMTTWELPG
25	C12	HFKNVKERTNWTNER	73	G12	SSRGMTTWELPGGYG
26	C11	NVKERTNWTNERTLD	74	G11	GMTTWELPGGYGRMK
27	C10	ERTNWTNERTLDDGL	75	G10	TWELPGGYGRMKPDI
28	C9	NWTNERTLDDGLGHG	76	G9	LPGGYGRMKPDIVTY
29	C8	NERTLDDGLGHGTFFV	77	G8	GYGRMKPDIVTYGAG
30	C7	TLDDGLGHGTFFVAGV	78	G7	RMKPDIVTYGAGVRG
31	C6	DGLGHGTFFVAGVIAS	79	G6	PDIVTYGAGVRGSGV
32	C5	GHGTFFVAGVIASMRE	80	G5	VTYGAGVRGSGVKGG
33	C4	TFVAGVIASMRECQG	81	G4	GAGVRGSGVKGGCRA
34	C3	AGVIASMRECQGFAP	82	G3	VRGSGVKGGCRALSG
35	C2	IASMRECQGFAPDAE	83	G2	SGVKGGCRALSGTSV
36	C1	MRECQGFAPDAELHI	84	G1	KGGCRALSGTSVASP
37	D12	CQGFAPDAELHIFRV	85	H12	CRALSGTSVASPVVA
38	D11	FAPDAELHIFRVFTN	86	H11	LSGTSVASPVVAGAV
39	D10	DAELHIFRVFTNNQV	87	H10	TSVASPVVAGAVTLL
40	D9	LHIFRVFTNNQVSYT	88	H9	ASPVVAGAVTLLVST
41	D8	FRVFTNNQVSYTSWF	89	H8	VVAGAVTLLVSTVQK
42	D7	FTNNQVSYTSWFLDA	90	H7	GAVTLLVSTVQKREL
43	D6	NQVSYTSWFLDAFNY	91	H6	TLLVSTVQKRELVNP
44	D5	SYTSWFLDAFNYAIL	92	H5	VSTVQKRELVNPASM
45	D4	SWFLDAFNYAILKKI	93	H4	VQKRELVNPASMKQA
46	D3	LDAFNYAILKKIDVL	94	H3	RELVNPASMKQALIA
47	D2	FNYAILKKIDVLNLS	95	H2	VNPASMKQALIASAR
48	D1	AILKKIDVLNLSIGG	96	H1	ASMKQALIASARRLP

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APPROVE	FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

97	I12	IKDFHVYFRESRDAG
98	I11	DAELHIFRVFTNNQV
99	I10	KQALIASARRLPGVN
100	I9	LIASARRLPGVNMF
101	I8	SARRLPGVNMFQGH
102	I7	RLPGVNMFEQGHGKL
103	I6	GVNMFEQGHGKLDLL
104	I5	MFEQGHGKLDLLRAY
105	I4	QGHGKLDLLRAYQIL
106	I3	GKLDLLRAYQILNSY
107	I2	DLLRAYQILNSYKPQ
108	I1	RAYQILNSYKPQASL
109	J12	QILNSYKPQASLSPS
110	J11	NSYKPQASLSPSYID
111	J10	KPQASLSPSYIDLTE
112	J9	ASLSPSYIDLTECPY
113	J8	SPSYIDLTECPYMWP
114	J7	YIDLTECPYMWPYCS
115	J6	LTECPYMWPYCSQPI
116	J5	CPYMWPYCSQPIYYG

**FIG.\_6C****FIG.\_10**

APPROVED	FIG.
DRAFTSMAN	CLASS SUBCLASS

MKLVNIWLLLLVLLCGKKHLGDRLEKKSFEKAPCGCSHLTLKVEFSSTVVEYEVIVAFNGYFT  
 AKARNSFISALKSSEVDNWRIPRNNPSSDYPDSFEVIQKEKQKAGLLTLEDHPNKRVTTPQR  
 KVFRSLKYAESDPTVPCNETRWSQKWQSSRPLRRASLSLGSFWHATGRHSSRRLLRAIPRQVAQ  
 TLQADVLMQGYTGANVRVAVFDTGLSEKHPHFKNVKERTNWTNERTLDDGLGHGTFVAGVIASM  
 RECQGFAPDAELHIFRVFTNNQVSYTSWFLDAFNAYAILKKIDVLNLSIGGPDFMDHPFVDKVVWEL  
 TANNVIMVSAIGNDGPLYGTLNPNPADQMDVIGVGIDFEDNIARFSSRGMTTWELPGGYGRMKPD  
 IVTYGAGVRGSGVKGCRALSGTSVASPVVAGAVTLLVSTVQKRELVPASMKQALIASARLLPG  
 VNMFEQGHGKDLLRAYQILNSYKPKQASLSPSYIDLTECPYMWPYCSQPIYYGGMPTVNVNVTILN  
 GMGVTGRIVDKPDWQPYLPQNGDNIEVAFSYSSVLWPWSGYLAISISVTKKAASWEGIAQGHVMI  
 TVASPAETESKNGAEQTSVKLPKVKIIPTPPRSKRVLWDQYHNLRYPPGYFFPRDNLRMKNDPL  
 DWNGDHIHTNFRDMYQHLRSMGYFVEVLGAPFTCFDASQYGTLLMVDSEEEYFPEEIAKLRRDVD  
 NGLSLVIFSDWYNTSVMRKVIFYDENTRQWMPDGTGGANIPALNELLSVWNMGFSDGLYEGETL  
 ANHDMYASGCSIAKFPEDGVITQTFKDQGLEVLKQETAVVENVPILGLYQIPAEGGGRIVLYG  
 DSNCLDDSHRQKDCFWLLDALLQYTSYGVTPPSLSHSGNRQRPSPGAGSVTPERMENHLHRYSK  
 VLEAHLGDPKPRPLPACPRLSWAKPQPLNETAPSNLWKHKLLSIDLDKVLNFRSNRPQVRPL  
 SPGESGAWDIPGGIMPGRYNQEVGQTI PVFAFLGAMVVLAFVQINKAKSRPKRRKPRVKRPQL  
 MQQVHPKTPSV

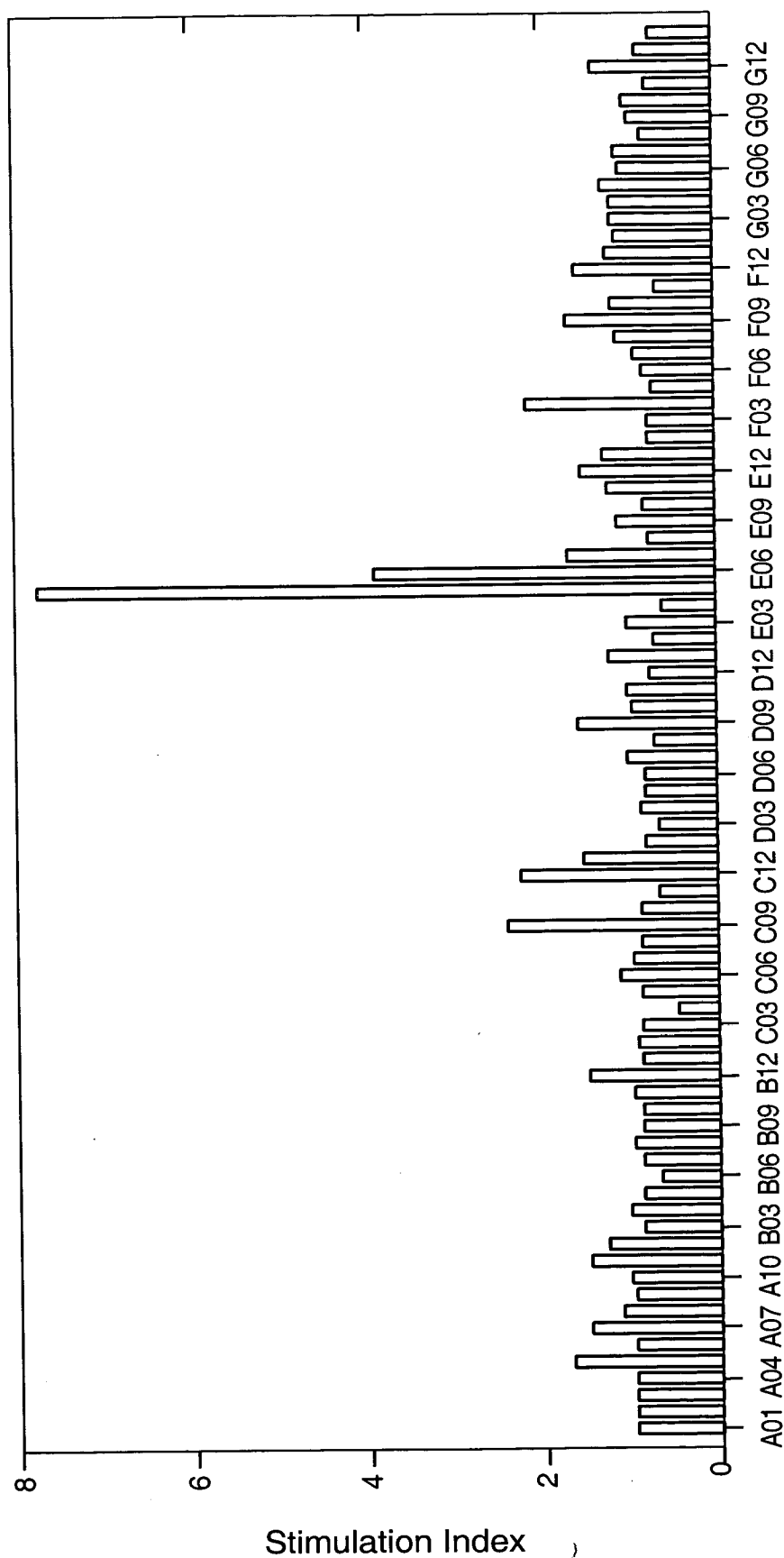
FIG.-7

FIG.-8

APPROVED	FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

BPN'	10	20	30	40	50	
SAVINASE	AQSVPYGVSQ-IKAPALHSQGYTGSNVKVAVIDSGIDSSHPDLK-VAGGA					48
S2HSBT	AQSVPGISR-VQAPAAHNRGLTGSQVAVLDGTGI-STHPDLN-IRGGA					47
	-RAIPRQVAQTLQADVLMQMGYTGANVRVAVFDTGLSEKHPHFKNVKERT					49
BPN'	60	70	80	90	100	
SAVINASE	SMVPSETNPFQDNNSHGTHVAGTVAAALNNSIGVLGVAPSASLYAVKVLGA					98
S2HSBT	SFVPGEPT-QDGNHGHGTHVAGTIAALNNSIGVLGVAPSASLYAVKVLGA					96
	NW--TNERLTDDGLGHGTFVAGVIAASMRECQGF--APDAELHIFRVFTN					94
BPN'	110	120	130	140	150	
SAVINASE	DGSGQYSWIIINGIEWAIANNMMDVINMSLGGPS-GSAALKAADVKAVASGV					147
S2HSBT	SGSGSVSSIAQGLEWAGNNGMHVANLSLGSPS-PSATLEQAVNSATSRGV					145
	NQVSYTSWFLDAFNAYAILKKIDVLNLSIGGPDFMDHPFVDKVVWELTANNV					144
BPN'	160	170	180	190	200	
SAVINASE	VVVAAGNEGTSGSSSTVGYPGKYPSVIAVGAVDSSNQRASSFSSVGPPEL-					197
S2HSBT	LVVAASGNSGA---GSI SYPARYANAMAVGATDQNNNRASFQYAGL-					191
	IMVSAIGNDGP--LYGTLNPNPADQMDVIGVGIGIDFEDNIARFSSRGMTTW					192
BPN'	210	220	230	240	250	
SAVINASE	-----DVMAPGVSIQSTLPGNKYGA YNGTSMASPHVAGAAALIL					235
S2HSBT	-----DIVAPGVNVQSTYPGSTYASLNGTSMATPHVAGAAALVK					229
	ELPGGYGRMKPDI VTYGAGVRGSGVKGGCRA LSGTSVASPVVAGAVTLLV					242
BPN'	260	270	280	290		
SAVINASE	SKHPNWTNTQ---VRSSLENTT TTKLGDSFY YGKGLINVQAAAQ					275
S2HSBT	QKNPSWSNVQ---IRNHLKNTATSLGSTNLYGSGLVNAEAAATR					269
	STVQKRRELVNPA SMKKQALIASARRLPGVNMFEGQ-----HGK L					280

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



Well Position

**FIG.\_9**



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